

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. APPLN. NO. 09/941,745

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method of controlling the power delivered by a heterojunction bipolar transistor power amplifier receiving an input power and delivering an amplified output power in a zero intermediate frequency architecture, said method including a step of detecting said output power and varying a control voltage of said power amplifier by means of a control loop to vary the gain of the amplifier, and a step of varying said input power level of said power amplifier,

wherein, if said output power is greater than a first predetermined limit value, said input power is kept constant and the control voltage is varied to obtain a non-linear said gain, and

wherein, if said output power is less than said first predetermined limit value, said input power is reduced to a value causing said control voltage to be increased to a second predetermined value where the power amplifier has only a linear said gain.

2. (canceled).

3. (currently amended): A circuit for controlling the power emitted by a heterojunction bipolar transistor power amplifier receiving an input power and delivering an amplified output power in a zero intermediate frequency architecture, said circuit including first means-means, for detecting said output power and varying a control voltage-voltage, and thus the gain, of said

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power ~~amplifier~~ amplifier, and second means for varying said input power of said power ~~amplifier~~ amplifier,

wherein, if said output power is greater than a first predetermined limit value, said second means maintains constant said input power, and said first means varies said control voltage to obtain a non-linear said gain, and

wherein, if said output power is less than said first predetermined limit value, said second means reduces said input power to a value causing said control voltage to be increased to a second predetermined limit value where said power amplifier has only a linear said gain.

4. (canceled).
5. (original): The circuit claimed in claim 3 including a variable gain pre-amplifier.
6. (currently amended): The circuit claimed in claim 3 wherein said second means for varying said input power of said power amplifier ~~include~~ includes a variable attenuator.
7. (previously presented): A radiocommunication terminal including a power control circuit as claimed in claim 3.